Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

- 1-31 (Cancelled)
- 32. (original) A latching micro magnetic switch, the switch comprising:
 - a reference plane;
- a magnet, located proximate to a supporting structure, the magnet producing a first magnetic field with uniformly spaced field lines at obtuse angles with respect to the reference plane;
- a cantilever, supported by the supporting structure, having an axis of rotation lying in the reference plane, and having a magnetic material that makes the cantilever sensitive to the first magnetic field, such that the cantilever can rotate about the axis of rotation between first and second states; and
- a conductor, located proximate to the supporting structure and the cantilever, configured to conduct a current, wherein the current produces a second magnetic field having a component approximately parallel to the reference plane and approximately perpendicular to the rotational axis of the cantilever, which causes the cantilever to switch between the first and second states.
- 33. (original) The switch of claim 32, wherein once switched to a one of the first and second states, the cantilever is latched in the one of the first and second states by the first magnetic field until further switching occurs.
- 34. (original) The switch of claim 32, wherein the conductor and the cantilever are formed on the supporting structure.
- 35. (original) The switch of claim 32, wherein the cantilever is provided between the substrate and the magnet.

- 36. (withdrawn) The switch of claim 32, wherein a magnitude of the second magnetic field is smaller than a magnitude of the first magnetic field.
- 37. (withdrawn) The switch of claim 32, wherein the supporting structure is positioned between the cantilever and the magnet.
- 38. (original) The switch of claim 32, wherein the supporting structure is a substrate.
 - 39. (currently amended) The switch of claim 32, wherein: the first state is an ON state during; and the second state is an OFF state.
 - 40. (withdrawn) The switch of claim 32, wherein: the first state is an OFF state; and the second state is an ON state.
- 41. (original) The switch of claim 32, wherein a longitudinal axis of the permanent magnet is at an acute angle within respect to a longitudinal axis of the supporting structure.
- 42. (withdrawn) The switch of claim 32, wherein a longitudinal axis of the permanent magnet is substantially parallel to a longitudinal axis of the supporting structure.
- 43. (original) The switch of claim 32, wherein one of the first and second states is a temporary state.